

Cold Harbour Marine
Monsal House
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Alfreton
Derbyshire
DE55 4RH

Bretby
Ashby Road
Bretby Business Park
Derwent House
Environmental Scientifics Group
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Water Quality Analysis

The samples shown below have been examined for either Legionella, Pseudomonas, Total Viable Counts, Coliforms and E. coli in accordance with Environmental Scientifics Group documented in-house procedures SCI/ENV206, 208, 209, 210 and 212, based on the EA publications 'The Microbiology of Drinking Water (Parts 1 to 9) - Methods for the Examination of Waters and Associated Materials' and BS6068-4:12:1998 Detection and Enumeration of Legionella. Where sampling is undertaken by Environmental Scientifics Group, this is done in accordance with documented in-house procedure SCI/ENV 203.

ESG Reference	Replicate	Date Sampled	Date Received	Date Tested	Sample Description	*TVC @ 37°C cfu/ml	*Confirmed E. coli cfu/ml	Comments
EC 13/09A	-	13/09/2011	13/09/2011	13/09/2011	E. coli suspension in nutrient broth	2.5 x 10 ⁸		
SDE3031/1	1	13/09/2011	14/09/2011	14/09/2011	Sample # 1 control 08.42		7.0 x 10 ⁴	Rig 1
	2						1.0 x 10 ⁵	
	3						8.3 x 10 ⁴	
	Average						8.5 x 10 ⁴	
	1						67	
SDE3031/2	2	13/09/2011	14/09/2011	14/09/2011	Sample # 6 13.42		76	Rig 1
	3						64	
	Average						69	

The Water Supply (Water Quality) Regulations 2000 require Colony Counts (TV/C) in mains public supply to show "No significant increase over that normally observed". Environmental Scientifics Group recommended Limits for Confirmed coliforms = 0/100ml, Confirmed E. coli = 0/100ml, Legionella = 0 or Not Detected / 1000ml, TVC = Total Viable Count. Figures over 300 cfu are approximate unless denoted '+'. This analysis was sub-contracted to a third party laboratory and tested using a UKAS accredited method. The results contained in this report are derived solely from the sample received. UKAS accredited tests are denoted by an asterisk (*). Legionella tests on samples volumes other than 1000ml are not UKAS accredited. This test report shall not be reproduced except in full, without written approval of Environmental Scientifics Group. Opinions or interpretations expressed herein are outside the scope of UKAS accreditation. The samples reported on herein were not sampled or identified by Environmental Scientifics Group unless otherwise indicated. Taking of samples from site is not included within the scope of accreditation of this laboratory.

Authorised By:



Suzanne Kelleher, Business Manager

ENV18754

15/09/2011

Date: 13/09/2011

Test rig: 1

Culture: A

Test: 25mm Choke R.L. + Wh. 6 GLD combination

Time	Activity	Sample #	DO mg/l	pH	T °C	Unreg. Air bar	Regd. Air bar	Airflow Nm ³ /hr	Water m ³ /hr	Water m/s	Whistle KHz	Bubbler L/min	Condy. µS/cm
-	-												
08:20	Bacteria to IBC #3; pump to tank												
08:37	Tank full, pump off												
08:42	Sample taken.	1	6.00	7.76	173.2	7.6	2.7	12.5	7.21	0.93	21.77	0.50	405
09:42	Sample taken.	3	8.10	8.40	17.0	7.5	2.7	12.4	7.21	0.93	21.77	0.50	396
10:42	Sample taken	5	7.90	8.46	16.9	7.5	2.7	12.5	7.19	0.93	21.77	0.50	396
11:42	Sample taken.	7	8.30	8.47	16.9	7.6	2.7	12.3	7.16	0.92	21.77	0.50	401
12:42	Sample taken.	9	8.10	8.47	16.9	7.6	2.7	12.2	7.20	0.92	21.77	0.50	396
13:42	Sample taken.	11	7.90	8.46	16.9	7.6	2.7	12.1	7.14	0.92	21.77	0.50	397
13:43	Pump to IBC #3; Treatment off												
14:02	Chlorinate IBC #3; pump to tank												
14:20	Tank full GLD on												
14:54	GLD off; pump to IBC #3												
15:20	Dechlor IBC# 3; pump IBC #2 to tank												
15:36	GLD on												
15:41	empty to drain												
15:56	Fill to DO												
16:08	Finish												

Note:

Chlorine Test

Pass

NW

Rig was chlorinated on the Monday